

Listing of Claims:

1. (Currently Amended) A Mobile computing device that can operate both as a host or a device comprising:

a processor that can function as a USB controller configured to operate as a USB host or a USB device;

a housing having a means for receiving an expansion card an expansion module bay;
wherein an the expansion module card is operationally coupled to the mobile computing
device via module having a first USB connector and one or more circuits for providing expan-
sion module function; and

a second USB connector positioned inside the expansion module bay housing to mate with the first USB connector when the expansion module is inserted in the bay, wherein and the
expansion module includes card interfaces with a USB interface and a conversion circuit, which
is coupled between the USB interface and the first USB connector; and the first and second USB
connectors have a form factor that is different than a standard USB form factor.

2. (Cancelled)

3. (Previously Presented) The device of claim 1, wherein the first and second connectors have a form factor that is smaller than a standard USB form factor.

4. (Currently Amended) The device of claim 1, further comprising a USB controller inside the housing of the mobile computing device.

5. (Previously Presented) The device of claim 4, wherin the USB controller is configured to function as a USB host.

6. (Previously Presented) The device of claim 4, wherein the USB controlled is configured to function as a USB device.
7. (Cancelled)
8. (Previously Presented) The device of claim 1, wherein the conversion circuit reduces the voltage of a signal on the first USB connector to a corresponding interface voltage and provides the reduced voltage to the interface if the voltage on the first USB connector is higher than the corresponding interface voltage.
9. (Previously Presented) The device of claim 1, wherein the conversion circuit boosts the voltage of a signal on the first USB connector to a corresponding interface voltage and provides the boosted voltage to the interface if the voltage on the first second USB connector is less than the corresponding interface voltage.
10. (Previously Presented) The device of claim 1, wherein the conversion circuit reduces the voltage of an interface signal to a voltage expected at the first connector and provides the reduced voltage to the first connector if the interface voltage is greater than expected.
11. (Previously Presented) The device of claim 1, wherein the conversion circuit boosts the voltage of an interface signal to a voltage expected at the first connector and provides the boosted voltage to the first connector if the interface voltage is less than expected.
12. (Previously Presented) The device of claim 1, further comprising a USB controller and a conversion circuit within the housing, the conversion circuit coupled between the USB controller and the second USB connector.
13. (Previously Presented) The device of claim 12, wherein the conversion circuit reduces the voltage of a signal on the second USB connector to a corresponding controller voltage and pro-

vides the reduced voltage to the controller if the voltage on the second USB connector is higher than the corresponding controller voltage.

14. (Previously Presented) The device of claim 12, wherein the conversion circuit boosts the voltage of a signal on the second USB connector to a corresponding controller voltage and provides the boosted voltage to the controller if the voltage on the second USB connector is less than the corresponding controller voltage.

15. (Previously Presented) The device of claim 12, wherein the conversion circuit reduces the voltage of a controller signal to a voltage expected at the second connector and provides the reduced voltage to the second connector if the controller voltage is greater than the corresponding voltage expected at the second connector.

16. (Currently Amended) The device of claim 12, wherein the conversion circuit boosts the voltage of a controller signal to a voltage expected at the second connector and provides the boosted voltage to the second connector if the controller voltage is less than the corresponding voltage expected at the first second connector.

17. (Previously Presented) The device of claim 1, further comprising an adapter having a third connector that is connected to a fourth connector, the third connector being a USB connector having a standard USB form factor, the fourth connector configured to mate with one of the first and second connectors.

18. (Currently Amended) A Mobile computing device that can operate both as a host or a device comprising:

a housing having for receiving an expansion card module bay;

a processor that can function as a USB controller configured to operate as a USB host or a USB device within the housing; and

a USB connector coupled to the USB controller; the USB connector positioned within the housing for operationally coupling the expansion card to the mobile computing device via a USB interface—expansion bay module in an expansion module receiving position for receiving an expansion module having one or more circuits for providing expansion module function.

19. (Previously Presented) The device of claim 18, wherein the USB connector has a non-standard USB form factor.

20. (Previously Presented) The device of claim 18, further comprising a conversion circuit within the housing and coupled between the USB controller and the USB connector.

21. (Previously Presented) The device of claim 20, wherein the conversion circuit reduces the voltage of a signal on the USB connector to a corresponding controller voltage and provides the reduced voltage to the controller if the voltage on the USB connector is higher than that corresponding controller voltage.

22. (Previously Presented) The device of claim 20, wherein the conversion circuit boosts the voltage of a signal on the USB connector to a corresponding controller voltage and provides the boosted voltage to the controller if the voltage on the USB connector is less than the corresponding controller voltage.

23. (Previously Presented) The device of claim 20, wherein the conversion circuit reduces the voltage of controller signal to a voltage expected at the USB connector and provides the reduced voltage to the USB connector if the controller voltage is greater than the corresponding voltage expected at the USB connector.

24. (Previously Presented) The device of claim 20, wherein the conversion circuit boosts the voltage of a controller signal to a voltage expected at the USB connector and provides the boosted voltage to the USB connector if the controller voltage is less than the corresponding voltage expected at the USB connector.

25. (Previously Presented) The device of claim 18, wherein the USB controller is a USB host.

26. (Previously Presented) The device of claim 18, wherein the USB controller is a USB device.

27. (Currently Amended) A mobile personal digital assistant that can operate both as a USB host or a USB device comprising:

a housing ~~for having~~ means for receiving an expansion card ~~having an expansion module bay;~~

a processor that can function as a USB controller configured to operate as a USB host or a USB device within the housing ~~and having one or more circuits for providing expansion module function;~~ and

a USB connector for the USB controller; the USB connector being positioned within the ~~housing expansion module bay, the USB connector being positioned to operationally couple the expansion card to the mobile personal digital assistant via a USB interface and another USB connector receive a mating USB connector of an expansion module.~~

28. (Currently Amended) An expansion module for a mobile device that can operate both as a USB host or a USB device, the expansion module comprising:

a USB interface coupled to a processor that can function as a USB controller configured to operate as a USB host or a USB device; and ~~an expansion card having one or more circuits coupled to the USB interface for providing expansion module function; and~~

a USB connector for the USB interface.

29. (Previously Presented) The device of claim 28, wherein the USB connector has a non-standard USB form factor.

30. (Previously Presented) The device of claim 28, further comprising a conversion circuit coupled between the USB interface and the USB connector.

31. (Previously Presented) The device of claim 30, wherein the conversion circuit reduces the voltage of a signal on the USB connector to a corresponding interface voltage and provides the reduced voltage to the interface if the voltage on the USB connector is higher than the corresponding expansion module voltage.

32. (Previously Presented) The device of claim 30, wherein the conversion circuit boosts the voltage of a signal on the USB connector to a corresponding interface voltage and provides the boosted voltage to the interface if the voltage on the USB connector is less than the corresponding expansion module voltage.

33. (Previously Presented) The device of claim 30, wherein the conversion circuit reduces the voltage of an interface signal to a voltage expected at the USB connector and provides the reduced voltage to the USB connector if the interface voltage is greater than the corresponding voltage expected at the USB connector.

34. (Previously Presented) The device of claim 30, wherein the conversion circuit boosts the voltage of an interface signal to a voltage expected at the USB connector and provides the boosted voltage to the USB connector if the interface voltage is less than the corresponding voltage expected at the USB connector.